

OLYMPIATOOLS®

GOOD QUALITY. GREAT VALUE.

USER MANUAL

X20s™
BATTERY SYSTEM

CIRCULAR SAW 1x 2AH

X20SCS1



UK
CA CE

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SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNING SYMBOLS

The following warning symbols appear throughout this user guide and indicate the appropriate safety measures you should take when assembling and operating the circular saw.

⚠ WARNING!

This symbol marks a point of safety, indicating a warning. Ignoring this safety symbol could result in an accident to yourself or others. To limit the risks of injury, fire or electrocution, always follow the recommendations indicated.

Safety warning symbols - Battery charger



Protection Class II
(double insulated)



Indicates T3.15A time lag fuse
with rated current of 3.15A



For indoor
use only

Safety warning symbols - Battery



Do not burn



Do not expose to rain or water



Do not expose the battery to sunlight or excessive temperatures. Do not charge or store the battery where the temperature is below 0°C or greater than 45°C.



Positive terminal



Negative terminal



LI-ION

Olympia Tools provides a facility for the collection and recycling of rechargeable LI-ION batteries once they have reached the end of their working life. To dispose of your battery please return to any Olympia Tools stockist who will collect on our behalf. Alternatively consult your local waste authority for information regarding available recycling and/or disposal options. Your battery will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.

Safety warning symbols - Laser



Laser radiation

Compliance and recycling symbols



Complies with all relevant UK regulations



Complies with relevant European regulations



Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNINGS - GENERAL POWER TOOLS

WARNING!

Read all safety warnings and instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

2. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

Personal safety

1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.



3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.**

4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery tool use and care

Power tool use and care

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNINGS - ALL OPERATIONS

⚠ WARNING!

Keep hands away from cutting area and the blade. Keep your second hand on the front handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.

Common warnings for all saws

1. **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
2. **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
3. **Never hold the piece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
4. **Hold the power tool by the insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
5. **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of the cut and reduces the chance of the blade binding.
6. **Always use blades with the correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
7. **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Kickback causes and related warnings

1. Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator. Kickback can occur when;
 - The blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
 - If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

2. **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
3. **When the blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** Investigate and take corrective actions to eliminate the cause of the blade binding.

4. When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged in the material. If the saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
 5. Support large panels to minimise the risk of the blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
 6. Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
 7. Blade depth and bevel adjusting locking levers/wing nuts must be tight and secure before making the cut. If the blade adjustment shifts while cutting, it may cause binding and kickback.
 8. Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.
3. The lower guard may be retracted manually only for special cuts such as “plunge cuts” and “compound cuts.” Raise the lower guard by retracting the lever and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
 4. Always observe that the lower guard is covering the blade before placing the saw down on the bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after the switch is released.

Specific warnings for circular saws

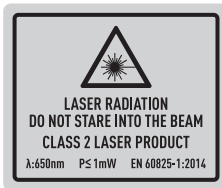
1. To avoid overheating the blade tips:
 - Use only blades which conform to EN847-1.
 - Pay attention to the maximum rotation speed. Never exceed the maximum speed indicated on the blade.
 - Never use damaged or dull blades. You are not authorised to repair the blade.
 - Use the blade provided for cutting wood only, never cut metal or plastic.
 - If you working for long periods, the blade may overheat. Take a 15 minutes pause to let the blade cool down.
2. Only use saw blades if you know how to use and handle them.
3. Only use saw blades that are marked with a speed equal to or higher than the speed marked on the tool.
4. Do not use working saw blades that are cracked. Scrap saw blades whose bodies are cracked. Repairing is not permitted
5. Do not use any abrasive wheels.
6. Clean clamping surfaces to remove dirt, grease, oil, and water.
7. Do not use loose rings or sleeves to ‘make up’ bore sizes on saw blades.

Specific warnings for saws with inner pendulum guard

1. Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting lever and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
2. Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. The lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

8. **Open the lower guard and remove the saw blade to clear the inside of the lower and upper guards if necessary.** Remove stubborn dirt with high-pressure air (max. 3 bar).
 9. **Ensure fixed rings are parallel to each other.**
 10. **Handle saw blades with care.** Store them in the original packaging or special boxes. Wear gloves for handling and to reduce injuries.
 11. **Check the function of the lower guard by raising and releasing the retraction lever.** Ensure all guards function well before using saw blades.
 12. **Before use, make sure that the saw blade complies with the technical requirements of the power tool and is correctly fixed.**
 13. **Always wear a dust mask, hearing protection, and eye protection.**
3. **The laser beam shall not be deliberately aimed at another person and shall be prevented from being directed towards the eye of a person for longer than 0.25 seconds.**
 4. **Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces, e.g wood or rough-coated surfaces are acceptable.** Bright shiny reflective sheet steel or similar is not suitable for laser applications as the reflective surface may direct the laser beam back at the operator.
 5. **Do not change the laser device to a different type.** Repairs must be carried out by the manufacturer or an authorised agent.
 6. **CAUTION: Use of controls or adjustments other than those specified herein may result in hazardous radiation exposure.**

Specific warnings for laser



The laser device fitted to this tool is class 2 with maximum radiation of 1mW and 650nm wavelength. These lasers do not normally present an optical hazard although staring at the beam may cause flash blindness.

⚠ WARNING!

Do not stare directly at the laser beam. A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows:

1. **The laser shall be used and maintained as per the manufacturer's instructions.**
2. **Never aim the beam at any person or any object other than the workpiece.**

SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNINGS - BATTERY PACK

1. **Do not dismantle, open or shred cells or battery pack.**
2. **Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.** When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

3. Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.
4. Do not subject battery pack to mechanical shock.
5. In the event of battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
6. Seek medical advice immediately if a cell or battery pack has been swallowed.
7. Keep battery pack clean and dry.
8. Wipe the battery pack terminals with a clean dry cloth if they become dirty.
9. Battery pack needs to be charged before use. Always refer to this user guide and use the correct charging procedure.
10. Do not maintain battery pack on charge when not in use.
11. After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.
12. Battery pack gives its best performance when it is operated at normal room temperature (20 °C ± 5 °C).
13. When disposing of battery packs, keep battery packs of different electrochemical systems separate from each other.
14. Recharge only with the charger specified by manufacturer. Do not use any charger other than that specifically provided for use with the equipment. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
15. Do not use any battery pack which is not designed for use with the equipment.
16. Keep battery pack out of the reach of children.
17. Retain this user guide for future reference.
18. Remove the battery from the equipment when not in use.
19. Dispose of properly.

SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNINGS - BATTERY PACK CHARGER

⚠ WARNING!

Read all safety warnings and instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

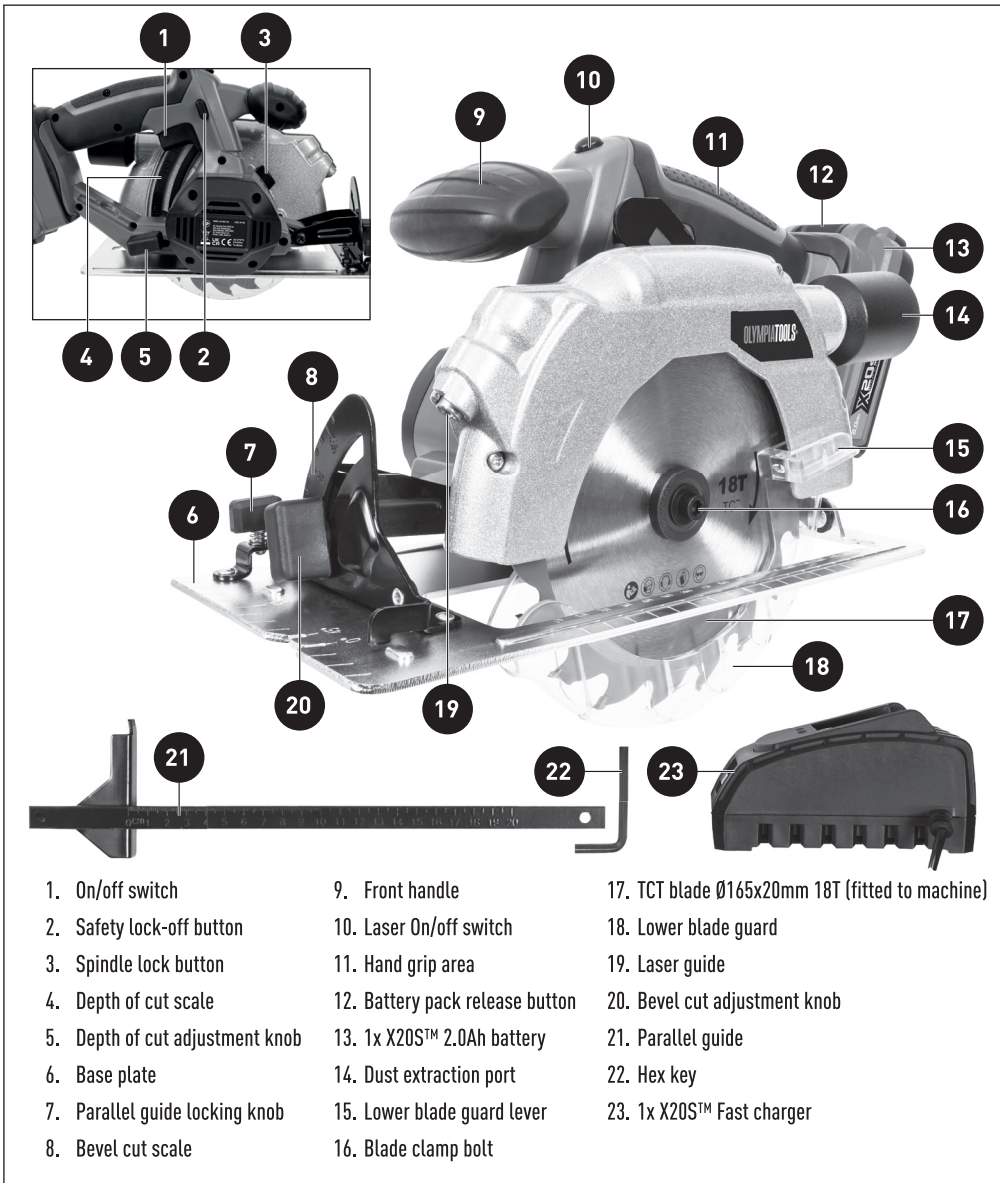
This appliance can only be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

1. Before charging, read the instructions.
2. After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
3. Do not charge a leaking battery.
4. Do not use chargers for works other than those for which they are designed.
5. Before charging, ensure charger matches the local AC supply.

SAFETY INFORMATION | SAFETY WARNINGS - BATTERY PACK

6. For indoor use, do not expose to rain.
7. The charging device must be protected from moisture.
8. Do not use the charging device in the open.
9. Do not short out the contacts of battery or charger.
10. Respect the polarity “+/-“ when charging.
11. Do not open the unit and keep out of the reach of children.
12. Do not charge the batteries of other manufactures or ill-suited models.
13. Ensure that the connection between the battery charger and battery is correctly positioned and is not obstructed by foreign bodies.
14. Check battery charger’s slots are free of foreign objects and protect against dirt and humidity. Store in a dry and frost-free place.
15. When charging batteries, ensure that the battery charger is in a well-ventilated area and away from inflammable materials. Batteries can get hot during charging. Do not overcharge batteries. Ensure that batteries and chargers are not left unsupervised during charging.
16. Do not recharge non-rechargeable batteries, as they can overheat and break.
17. Longer life and better performance can be obtained if the battery pack is charged when the air temperature is between 18°C and 24°C. Do not charge the battery pack in air temperatures below 4°C, or above 40°C. This is important as it can prevent serious damage to the battery pack.
18. Charge only battery packs of the same model provided by manufacturer and of models recommended by manufacturer.

IN THE BOX



OPERATION INSTRUCTIONS



IMPORTANT: To reduce risk of injury, please read this user guide before use.

Intended use

This tool is intended for lengthways and crossways cutting of wood with straight cutting lines as well as bevel angles to 45° while resting firmly on the workpiece.

Charging the battery pack (See fig. A)

Before putting into operation charge the tool or battery pack.

1. Do not use any charger other than that specifically provided for use with the equipment.
2. If the battery pack is very hot you must remove your battery pack from the charger and allow time for the battery to cool down before recharging.
3. The battery in your new tool is not charged when it leaves the plant. Therefore it must be fully charged before using the first time.
4. Please charge the battery to reach full or no less than half charge before storage. If the tool will not be used for long periods of time, charge the battery every 3-6 months.

Plug the charger into a suitable power outlet before inserting the battery. Slide the battery pack into the charger ensuring that it is firmly seated and locked in place. The red (charging) light will illuminate and indicates that the charging process is in progress. A green light indicates that charging is complete. Remove the plug from the power outlet and slide the battery pack from the charger. The battery is ready for use.

⚠ WARNING!

When charging, the charger and battery may become warm to the touch, this is normal and does not indicate a problem.

When battery charge runs out after continuous use or exposure to direct sunlight or heat, allow time for the tool to cool down before re-charging to achieve the full charge.

Fig. A



Installing and removing the battery pack (See fig. B)

⚠ WARNING!

Before inserting or removing the battery pack, always make sure the On/off switch (1) is locked by checking the safety lock-off button (2) is in the centre position.

1. To remove the battery pack
Press the battery pack release button (12) firmly first and then slide the battery pack out from your tool.
2. To install the battery pack
Slide the fully charged battery pack onto the tool with sufficient force until it clicks into position.

Fig. B

Press
& pull



Assembly

⚠ WARNING!

Remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. When mounting the saw blade, wear protective gloves. Danger of injury when touching the saw blade. When changing the saw blade take care that the inside of the lower and upper guards is free of material residue, e.g. sawdust.

Fitting / replacing a saw blade (See fig. C1A, C1B, C2, C3)

⚠ WARNING!

Remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

⚠ WARNING!

Risk of burns. The tool may still be hot on completion of the work. There is a risk of burning. Allow a hot tool to cool down. Never clean a hot tool with flammable liquids.

⚠ WARNING!

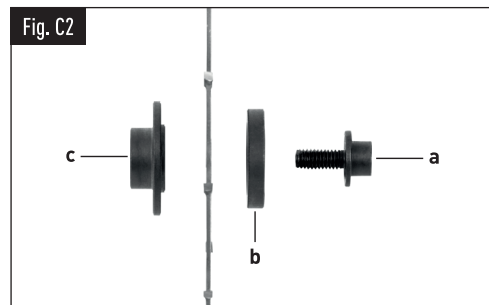
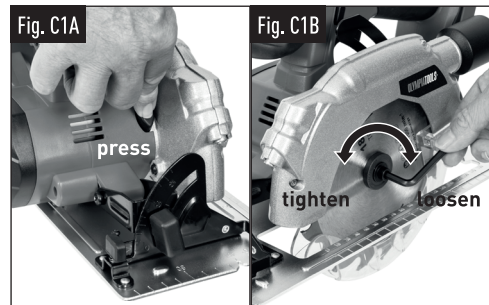
Risk of injury (cuts from sharp edges). There is a danger of cutting even with a stationary tool. Wear gloves when changing blades.

⚠ WARNING!

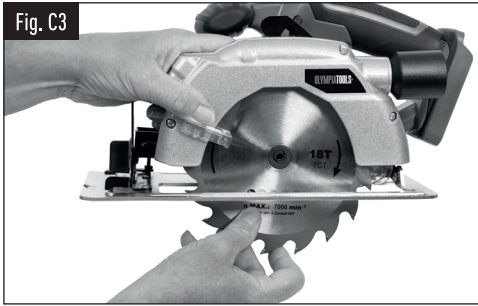
Blade teeth are very sharp. For best cutting results ensure you use a saw blade suited to the material and cut quality you need.

Press the spindle lock button (3), then using the hex key (22) loosen the blade clamp bolt (a) by turning clockwise. Remove the blade clamp bolt (a) and outer flange (b). Rotate the lower blade guard (18) counterclockwise by pushing the lower blade guard lever (15) and remove the old blade (17).

Rotate the lower blade guard (18) counterclockwise by pushing the lower blade guard lever (15) and fit a new blade. Ensure that the blade bore is located on the inner flange (c) and the blade direction arrow points in the same direction as the fixed guard arrow. Place the outer flange (b) and blade bolt (a) onto the blade bore. Press the spindle lock again. Then, using the hex key in 1/4 turns, tighten the blade clamp bolt (a) by turning counterclockwise until it is more than finger tight. Check if the blade is securely clamped and remove the hex key.



OPERATION INSTRUCTIONS



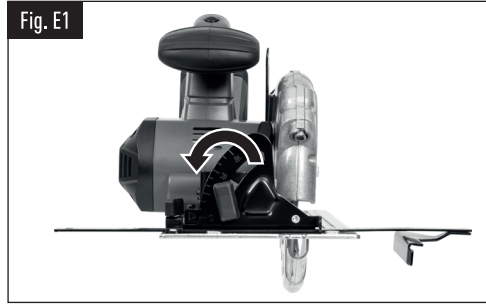
Depth of cut adjustment (See fig. D)

Loosen the depth of cut adjustment knob (5) and raise the saw body away from the base plate. Set the depth of cut using the depth of cut scale (4) and tighten the depth of cut adjustment knob to lock. Always add 3mm to your depth of cut so that the blade can cut through the material.



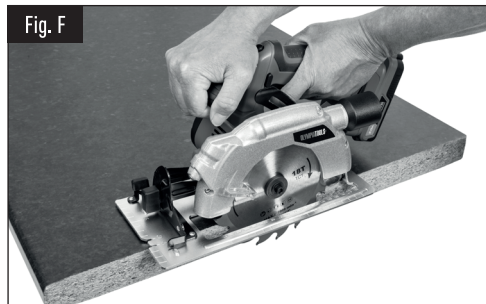
Bevel cut adjustment (See fig. E1, E2)

Turn the bevel cut adjustment knob (20) counterclockwise to loosen the bevel cut scale (8). Tilt the base plate away from the tool until the required cutting angle is adjusted on the bevel cut scale. Tighten the bevel cut adjustment by turning the knob clockwise. Do not use the depth of cut scale when making bevel cuts due to possible inaccuracy.



Holding the tool (See fig. F)

Always hold your saw firmly with both hands when operating.



Safety lock-off switch (See fig. G)

⚠ WARNING!

Before inserting or removing the battery pack, always make sure the On/off switch (1) is locked by checking the safety lock-off button (2) is in the centre position.

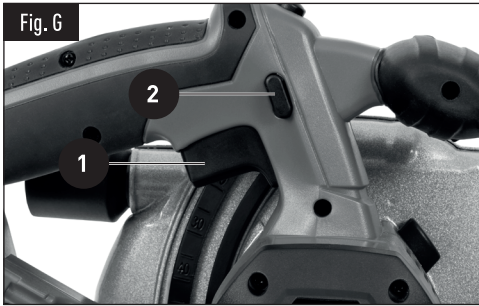
⚠ WARNING!

After operation, always switch off the tool and wait until the blade has come to a complete stop before putting the tool down.

Switching on:

1. Unlock the On/off switch (1) by pushing the safety lock-off button (2) either to the left or right. The On/off switch is locked when the safety lock-off button is in the centre.
2. Turn on the circular saw by depressing the On/off switch.

Fig. G



Switching off:

Turn off the circular saw by releasing the On/off switch (1), making sure the safety lock-off button (2) is in the centre position.

Laser guide (See fig. H)

⚠ WARNING!

Do not stare directly into the laser beam and never point the beam at other people or animals. The laser beam energy is extremely harmful to the eyes.

First, mark the cutting line on the workpiece. Adjust the depth of cut and bevel angle as required and rest the front of the base plate on the workpiece. Only turn the laser on when you are ready to start cutting. Switch on the laser by pressing the laser On/off switch (10). Align the laser beam with the mark on the workpiece. Turn on the circular saw and cut the workpiece slowly, keeping the laser beam on the cutting line. Always turn the laser off after cutting.

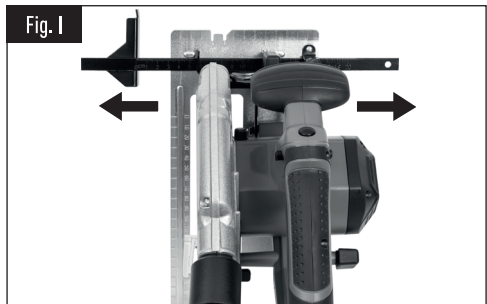
Fig. H



Parallel guide adjustment (See fig. I)

The guide is used for making cuts parallel to a workpiece edge at a chosen distance. Loosen the parallel guide locking knob (7). Slide the parallel guide (21) through the fixture to achieve the required cutting distance then tighten the parallel guide locking knob to clamp. It can be used from both sides of the base plate (6). For straight cuts, use the 0° guide mark to align with your parallel guide scale. For a 45° bevel cut, use the 45° guide mark to align with your parallel guide scale. Securely clamp the parallel guide. It is best to carry out a trial cut.

Fig. I



OPERATION INSTRUCTIONS

Cutting operation

Check and make sure the workpiece is held securely, then set the required base plate angle and cutting depth. Place the front of the base plate (6) on the workpiece (do not allow the blade to touch the workpiece at this time). To start the saw, unlock the On/off switch (1) by pushing the safety lock-off button (2) either to the left or right. When the saw reaches the maximum speed, push it forward slowly. Always hold the saw firmly with both hands when operating. Turn off the circular saw by releasing the On/off switch.

Dust extraction port

A vacuum hose can be connected to the dust extraction port (14) for cleaner cutting operations. The vacuum cleaner must be suitable for the material being worked on.

Checking the battery pack capacity (See fig. J)

Check the battery capacity via the coloured LEDs. Press the button and check the LEDs:

| Light | Status |
|-------------------|-----------------------|
| 1 green light on | Battery too low |
| 2 green lights on | Battery half charged |
| 3 green lights on | Battery fully charged |



Disposal of an exhausted battery pack

Olympia Tools provides a facility for the collection and recycling of rechargeable LI-ION batteries once they have reached the end of their working life. To dispose of your battery please return to any Olympia Tools stockist who will collect them on our behalf. Alternatively consult your local waste authority for information regarding available recycling and/or disposal options. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.

Discharge your battery pack by operating your circular saw, then remove the battery pack from the circular saw housing and cover the battery pack connections with heavy-duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.



Overload protection

When overloaded, the motor comes to a stop. Relieve the load on the tool immediately and release the On/off switch. Restart the tool as normal.

Temperature dependent overload protection

When used as intended the power tool cannot be subject to overload. When the load is too high or the allowable battery temperature is too hot, the electronic control switches off the power tool until the temperature is in the optimum temperature range again.

Protection against deep discharging

The LI-ION battery is protected against deep discharging by the "Discharging Protection System". When the battery is empty, the tool is switched off by means of a protective circuit. The circular saw will no longer rotate. Remove the battery and recharge.

Useful tips

1. If your power tool becomes too hot, run it with no load for 2-3 minutes to cool the motor.
2. Always use a blade suited to the material and material thickness to be cut. The quality of cut will improve as the number of blade teeth increase.
3. Always ensure the work-piece is firmly held or clamped to prevent movement.
4. Support large panels close to the cut line. Any movement of the material may affect the quality of the cut.
5. The blade cuts on the upward stroke and may chip the uppermost surface or edges of your workpiece. When cutting, ensure your uppermost surface is a non-visible surface when your work is finished i.e. always face the good side of the workpiece down to ensure minimum splintering.
6. Feeding too fast significantly reduces the performance of the tool and shortens the life of the saw blade.
7. Only use sharp saw blades of the correct type.
8. For pocket cutting [soft materials only] this operation requires much skill with a saw and must only be carried out by a competent person.

TROUBLE SHOOTING

If your circular saw efficiency is too low?

Check the accessory being used is not blunt or worn.

If the fault cannot be rectified?

Return the tool to an authorized dealer for repair.

Reasons for different battery pack working times?

Prolonged storage of a battery pack without use will reduce the battery pack working time. This can be corrected after several charge and discharge operations by charging and working with your circular saw. Heavy working conditions use up the battery pack energy faster than lighter working conditions. Do not re-charge your battery pack below 0°C and above 45°C as this will affect performance.

MAINTENANCE

Your tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool.

Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth.

Always store your power tool in a dry place.


Keep the motor ventilation slots clean. Keep all working controls free of dust.

Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.


TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS




Circular saw

| | |
|--------------------------|---|
| Model | M8663 (X20SCS1) |
| Code | 09-955 |
| Battery voltage | 20V  |
| Battery capacity | 1x X20S™ 2.0Ah LI-ION 40Wh |
| Charge time | 1 hour |
| No-load speed | 4300/min |
| Blade Ø | 165x20mm |
| Bevel capacity | 0-45° |
| Max. cutting depth (90°) | 52mm |
| Max. cutting depth (45°) | 36mm |
| Weight | 2.66kg |

Battery pack

| | |
|------------------|---|
| Model | JH002-20V (X20SB2) |
| Code | 09-980 |
| Battery voltage | 20V  |
| Battery capacity | 2.0Ah LI-ION 40Wh |

Battery pack charger

| | |
|---------------------|--|
| Model | XZ2000-2400KSB (X20SFC) |
| Code | 09-990 |
| Input | 220-240V~50-60Hz 65W |
| Output | DC20V  2.4A |
| Charging time | 1 hour |
| Protection class II |  |
| For indoor use only |  |

Noise/vibration information

Noise

| | |
|---------------------------|---------------------------------|
| A weighted sound pressure | L_{pA} : 97.0dB(A) |
| A weighted sound power | L_{WA} : 108.0dB(A) |
| | K_{pA} and K_{WA} =3.0dB(A) |

⚠ WARNING!

Wear ear protection when sound pressure is over: 80dB(A)

Vibration

Vibration total values (triax vector sum) determined according to EN 62841:

| | |
|--------------|--|
| Cutting wood | Vibration emission value $a_{h,w} = 1.59m/s^2$ |
| | Uncertainty $K = 1.5m/s^2$ |

The declared vibration total value may be used for comparing one tool with another, and may also be used in a preliminary assessment of exposure.

⚠ WARNING!

The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used for example:

How the tool is used and the materials being cut or drilled.

The tool being in good condition and well maintained.

Use of the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles and whether any anti-vibration accessories are used.

The tool is being used as intended by its design and as detailed in this user guide.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.

⚠ WARNING!

To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

ALWAYS use sharp chisels, drills and blades.

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).

If the tool is to be used regularly then invest in anti-vibration accessories.

Avoid using tools in temperatures of 10°C or less.

Plan your work schedule to spread any high vibration tool use across a number of days.

DISPOSAL

Packaging materials

Dispose of in an environmentally friendly way by adding to your recyclable waste bin, or by taking it to a public collection centre.



Electrical products

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



Batteries

Olympia Tools provides a facility for the collection and recycling of rechargeable LI-ION batteries once they have reached the end of their working life. To dispose of your battery please return to any Olympia Tools stockist who will collect on our behalf. Alternatively consult your local waste authority for information regarding available recycling and/or disposal options. Your battery will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.



STORAGE

Store the machine, operating instructions and where necessary the accessories in the original packaging. In this way you will always have all the information and parts ready to hand.

Pack the device well or use the original packaging in order to avoid transit damage.

Always keep the machine in dry place.

TRANSPORT

WARNING!

LI-ION batteries are subject to Dangerous Goods Legislation. The process for shipping LI-ION batteries can be difficult. There are many regulations you need to adhere to, and specific packaging and labelling instructions you need to follow when sending LI-ION batteries by ground or air via a third party (air freight, courier, etc.)

Ensure you take account of UN3481 regulations and any more detailed national regulations. If in doubt, contact the service provider you have chosen to ship your LI-ION batteries or consult an expert for hazardous material.

WARNING!

- Make sure your LI-ION battery is contained in its associated device
- Seal the On/off switches and any electrical terminals with tape
- Place your device in a plastic bag before packaging it
- Make sure you attach the correct shipping label for the service you're using to ship your LI-ION batteries
- You are responsible for ensuring all documentation is correct
- Make sure your package is secure and will not break if it is dropped
- Use as much hard-wearing packaging as you can
- You are not allowed to ship faulty LI-ION batteries
- Batteries can be transported by road without further requirements

GUARANTEE

This product is selected for **DOMESTIC USE ONLY** and not for business use. This product is guaranteed against manufacturing defects for a period of 24 months. This does not cover the product where the fault is due to misuse, abuse, use in contravention of the instructions, or where the product has been the subject of unauthorised modifications or alterations, or has been the subject of commercial use. In the event of a problem with the product within the guarantee period please return it to your nearest store. If the item is shown to have an inherent defect present at the time of sale, the store will provide you with a replacement. Your statutory rights remain unaffected.

UK DECLARATION OF CONFORMITY

1. Apparatus product/model

Product: X20S™ Circular saw 1x 2Ah

Model: M8663 (X20SCS1)

2. This declaration of conformity is issued under the sole responsibility of the manufacturer

3. Object of the declaration

Product: X20S™ Circular saw 1x 2Ah

Model: M8663 (X20SCS1)

Rated voltage: 20V

4. This X20S™ Circular saw 1x 2Ah model number M8663 (X20SCS1), fully complies with the Supply of Machinery (Safety) Regulations 2008, Electromagnetic Compatibility Regulations 2016, the Restriction of Use of Certain Hazardous Substances in Electrical & Electronic Equipment Regulations 2012, and the following standards:

BS EN 62841-1: 2015

BS EN 55014-2:2015

BS EN 62841-2-5: 2014

BS EN 55014-2:1997+A1+A2

BS EN 55014-1:2017+A11

5. This declaration is made under the sole responsibility of:

SUMEC HARDWARE AND TOOLS CO., LTD.

No. 1 Xinghuo Road, Jiangbei New Area, Nanjing, Jiangsu, 210061 China

Chief Engineer

Wenjun

Date: Jun,18,2021



EU DECLARATION OF CONFORMITY

1. Apparatus product/model

Product: X20S™ Circular saw 1x 2Ah

Model: M8663 (X20SCS1)

2. This declaration of conformity is issued under the sole responsibility of the manufacturer

3. Object of the declaration

Product: X20S™ Circular saw 1x 2Ah

Model: M8663 (X20SCS1)

Rated voltage: 20V

4. This X20S™ Circular saw 1x 2Ah model number M8663 (X20SCS1) fully complies with the Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EC, Electromagnetic Compatibility Directive 2014/30/EC, RoHS Directive 2011/65/EU and the following harmonized EU standards:

EN 62841-1:2015 EN 55014-2:2015

EN 62841-2-5:2014

EN 55014-1:2017+A11

5. This declaration is made under the sole responsibility of:

SUMEC HARDWARE AND TOOLS CO., LTD.

No. 1 Xinghuo Road, Jiangbei New Area, Nanjing, Jiangsu, 210061 China

Chief Engineer

Wenjun

Date: Jun,01,2021



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